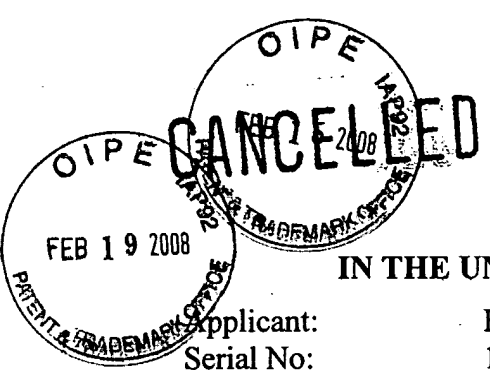


JFW



Attorney Docket No.: 2002P87059WOUS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Fufang Zha et al.
Serial No: 10/537,760
Confirmation No: 5173
Filed: June 6, 2005
Title: MIXING CHAMBER
Examiner: Menon, Krishnan S.
Art Unit: 1797

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 14th day of February, 2008.

Jessica Correia

Jessica M. Correia

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- Information Disclosure Statement
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 395-7000.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 50/2762, Ref. No. M2019-7027US. A duplicate of this sheet is enclosed.

Respectfully submitted,
Fufang Zha et al., Applicant

By: *Nicole A. Palmer*

Peter C. Lando, Reg. No. 34,654
Nicole A. Palmer, Reg. No. 58,943
LOWRIE, LANDO & ANASTASI, LLP
Riverfront Office Park
One Main Street
Cambridge, MA 02142
(617) 395-7000

Date: February 14, 2008



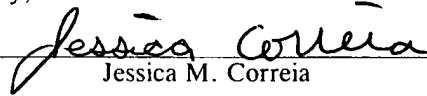
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Jessica M. Correia

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Dear Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
11/179,391	07-12-2005	Fufang Zha et al.
11/316,593	12-22-2005	Fufang Zha et al.
11/025,418	12-28-2004	Fufang Zha et al.
11/542,752	10-04-2006	Edward Jordan et al.
10/759,560	01-15-2004	Fufang Zha et al.
11/441,819	05-26-2006	Fufang Zha et al.
11/660,694	08-19-2005	Robert McMahon et al.

Applicant will provide a copy of any of the above-listed co-pending applications at the request of the Examiner.

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified):

CN 1050770C appears to be directed to selective clogging of failed fibers. An English Abstract is enclosed.

DE 29804927 appears to be directed to an apparatus for separating liquid media containing impurities. An English Abstract is enclosed.

DE 29906389 appears to be directed to a multilevel textilen building material. An English Abstract is enclosed.

DE 3904544 appears to be directed to polymer membranes on the basis of polyvinylidene fluoride, a process for the production thereof and their use. An English Abstract is enclosed.

DE 4113420 appears to be directed to a hollow polyacrylonitrile fibres, useful for membrane process manufactured by dry-wet or wet spinning from special spinning solutions containing PAN and non-solvent etc., with simultaneous extrusion of core fluid. An English Abstract is enclosed.

DE 4117281 appears to be directed to a hydrophilized microporous polytetrafluorethylene membrane and production process thereof. An English Abstract is enclosed.

DE 4117422 appears to be directed to monitoring contamination level of filter, partic. for hydraulic fluids – in which signal is produced which correlates with quotient of two pressure differences and evaluating device produces signal to change filter when quotient reaches given value. An English Abstract is enclosed.

EP 0126714 appears to be directed to a method and apparatus for the treatment of solutions by reverse osmosis. An English Abstract is enclosed.

EP 1349644 appears to be directed to modified membranes. An English translation is enclosed.

EP 0250337 appears to be directed to semi-permeable hydrophilic polyvinylidene fluoride membranes suited for drying. An English Abstract is enclosed.

EP 0327025 appears to be directed to a porous membrane filter having fluid impermeable places and their use. An English Abstract is enclosed.

EP 407900 appears to be directed to a flat or capillary membrane manufactured from a mixture of polyvinylidene fluoride and a second by chemical reaction hydrophilable polymer. An English Abstract is enclosed.

EP 0463627 appears to be directed to hydrophilized microporous polytetrafluorethylene membrane and production process thereof. An English Abstract is enclosed.

FR 2620712 appears to be directed to hydrophilic block copolymers of vinylidene fluoride and of N-alkylacrylamides and process for their production. An English Abstract is enclosed.

FR 2674448 appears to be directed to a process for cleaning mesoporous tubular ultrafiltration membranes. An English Abstract is enclosed.

FR 2699424 appears to be directed to a hollow fibre filter module using moulded resin discs. An English Abstract is enclosed.

JP 01-151906 appears to be directed to production of hollow yarn membrane module cartridge. An English Abstract is enclosed.

JP 01-307409 appears to be directed to a device for automatically detecting leak in hollow yarn ultrafiltration membrane module and giving alarm. An English Abstract is enclosed.

JP 02-026625 appears to be directed to a back washing method of hollow fiber membrane filter. An English Abstract is enclosed.

JP 02-031200 appears to be directed to a backwash method of hollow-string film filter. An English Abstract is enclosed.

JP 02-107318 appears to be directed to a membrane module of hollow fiber type. An English Abstract is enclosed.

JP 02-126922 appears to be directed to a back washing method of separating membrane. An English Abstract is enclosed.

JP 02-144132 appears to be directed to a porous polyolefin film. An English Abstract is enclosed.

JP 02-164423 appears to be directed to a method for washing hollow fiber membrane filter. An English Abstract is enclosed.

JP 02-277528 appears to be directed to a backwash device of filter having hollow fiber membrane. An English Abstract is enclosed.

JP 02-284035 appears to be directed to a leak test method for hydrophobic hollow yarn type porous membrane. An English Abstract is enclosed.

JP 03-018373 appears to be directed to a method and device for detecting leak of hollow fiber membrane type liquid processor. An English Abstract is enclosed.

JP 03-028797 appears to be directed to a method for removing suspensible impurity of condensate by mixed end type condensate desalting device. An English Abstract is enclosed.

JP 03-110445 appears to be directed to a completeness testing method. An English Abstract is enclosed.

JP 04-187224 appears to be directed to production of fluorine-based porous hollow yarn membrane. An English Abstract is enclosed.

JP 04-250898 appears to be directed to a batch-wise waste water treating device. A certified English translation is enclosed.

JP 04-256424 appears to be directed to a hollow fiber membrane module. An English Abstract is enclosed.

JP 04-265128 appears to be directed to membrane separation equipment. An English translation is enclosed.

JP 04-293527 appears to be directed to a hollow fiber type membrane module and production thereof. An English Abstract is enclosed.

JP 04-310223 appears to be directed to a polyfluorovinylidene resin membrane and method for production thereof. An English Abstract is enclosed.

JP 04-348252 appears to be directed to inspection of completeness of membrane filter from coefft. of redn. of gas pressure of dammed upstream side of filter. An English Abstract is enclosed.

JP 05-137977 appears to be directed to detection of separation membrane breakage for membrane filter. An English Abstract is enclosed.

JP 05-023557 appears to be directed to a hydrophilic heat-resistant film and its manufacture. An English Abstract is enclosed.

JP 05-096136 appears to be directed to a hollow-fiber membrane module and using method therefor. An English Abstract is enclosed.

JP 05-157654 appears to be directed to a leakage inspection method of film-separation device. An English Abstract is enclosed.

JP 05-285348 appears to be directed to a vertical type hollow fiber membrane module. An English Abstract is enclosed.

JP 06-071120 appears to be directed to a method for detecting blinding of filter. An English Abstract is enclosed.

JP 06-114240 appears to be directed to a filter. An English Abstract is enclosed.

JP 06-218237 appears to be directed to a dipping type filtering device. An English Abstract is enclosed.

JP 06-277469 appears to be directed to a membrane separation device. An English Abstract is enclosed.

JP 06-285496 appears to be directed to hollow fiber membrane separation biological treatment and a device for organic drainage. An English Abstract is enclosed.

JP 06-343837 appears to be directed to a hollow fiber membrane module. A certified English translation is enclosed.

JP 07-024272 appears to be directed to a filtering method. A certified English translation is enclosed.

JP 07-068139 appears to be directed to a method for backwashing hollow-fiber membrane module. An English Abstract is enclosed.

JP 07-136470 appears to be directed to a hollow yarn membrane module and assembly fitted with air diffusing pipe. An English translation is enclosed.

JP 07-136471 appears to be directed to a hollow yarn membrane module and assembly fitted with air diffusing pipe. An English Abstract is enclosed.

JP 07-155758 appears to be directed to a waste water treating device. An English Abstract is enclosed.

JP 07-178323 appears to be directed to a method for backwashing ceramic membrane. An English Abstract is enclosed.

JP 07-185268 appears to be directed to a hollow fiber filter membrane element and module. A certified English Translation is enclosed.

JP 07-185271 appears to be directed to an immersion membrane apparatus. An English translation is enclosed.

JP 07-236819 appears to be directed to an air bubble disperser. An English Abstract is enclosed.

JP 07-251043 appears to be directed to a filtering method and filter device. An English Abstract is enclosed.

JP 07-275665 appears to be directed to a hollow yarn membrane module. An English Abstract is enclosed.

JP 07-289860 appears to be directed to a cleaning method of hollow fiber membrane module. An English Abstract is enclosed.

JP 07-303895 appears to be directed to a water treatment apparatus. An English Abstract is enclosed.

JP 08-010585 appears to be directed to a condensation device using hollow yarn membrane. An English Abstract is enclosed.

JP 09-099227 appears to be directed to an immersion type membrane separation device. An English Abstract is enclosed.

JP 09-141063 appears to be directed to a hollow fiber membrane module. An English Abstract is enclosed.

JP 09-187628 appears to be directed to hollow fiber type module and its production. An English Abstract is enclosed.

JP 09-220569 appears to be directed to a solid-liquid separator. An English Abstract is enclosed.

JP 09-271641 appears to be directed to production of hollow yarn membrane module. An English Abstract is enclosed.

JP 09-324067 appears to be directed to production of porous fluororesin. An English Abstract is enclosed.

JP 10-033955 appears to be directed to a membrane separation apparatus. An English Abstract is enclosed.

JP 10-048466 appears to be directed to an adhesive for optical connector, and ferrule and optical connector using that. An English Abstract is enclosed.

JP 10-156149 appears to be directed to a hollow-fiber membrane module. An English Abstract is enclosed.

JP 11-028467 appears to be directed to 4-alkylsemicarbazide as deoxidizer. An English Abstract is enclosed.

JP 11-033365 appears to be directed to a method and apparatus for two-layer centrifugal bonding of hollow yarn membrane module. An English Abstract is enclosed.

JP 11-156166 appears to be directed to a cleaning method for hollow fiber membrane module. An English Abstract is enclosed.

JP 11-165200 appears to be directed to a method for treating sludge. An English Abstract is enclosed.

JP 11-319507 appears to be directed to a hollow fiber membrane module. An English Abstract is enclosed.

JP 11-333265 appears to be directed to a membrane module. An English Abstract is enclosed.

JP 2000-157850 appears to be directed to separating membrane preservation liquid and separating membrane module. An English Abstract is enclosed.

JP 2000-070684 appears to be directed to backwashing of pleated membrane filter. An English Abstract is enclosed.

JP 2000-185220 appears to be directed to a hollow fiber membrane module. An English Abstract is enclosed.

JP 2000-317276 appears to be directed to a filtering device. An English Abstract is enclosed.

JP 2000-342932 appears to be directed to a potting method for separation membrane. An English Abstract is enclosed.

JP 2001-079367 appears to be directed to a membrane separation method and device thereof. An English Abstract is enclosed.

JP 2001-009246 appears to be directed to an immersion type flat membrane filtering device. An English Abstract is enclosed.

JP 2001-070967 appears to be directed to a cleaning system for laundry waste water. An English Abstract is enclosed.

JP 2001-104760 appears to be directed to immersion type membrane filtration apparatus and method for washing filtration membrane. An English Abstract is enclosed.

JP 2001-190937 appears to be directed to water purification equipment and method of cleaning membrane element. An English Abstract is enclosed.

JP 2001-190938 appears to be directed to a method of detecting breakage of water treating membrane. An English Abstract is enclosed.

JP 2001-205055 appears to be directed to a method for operating membrane separation apparatus and apparatus therefor. An English Abstract is enclosed.

JP 2003-047830 appears to be directed to a dipping type membrane filtration apparatus and dipping type membrane filtration method. An English Abstract is enclosed.

JP 2003-062436 appears to be directed to a method for manufacturing hollow fiber membrane module. An English Abstract is enclosed.

JP 2003-135935 appears to be directed to a method for manufacturing hollow fiber membrane module. An English Abstract is enclosed.

JP 21-44132 appears to be directed to a porous polyolefin film. An English Abstract is enclosed.

JP 54-162684 appears to be directed to a preliminary treating method for contaminated membrane. An English Abstract is enclosed.

JP 55-099703 appears to be directed to preparation of anisotropic resin magnet. An English Abstract is enclosed.

JP 55-129107 appears to be directed to a washing method of selective permeable membrane. An English Abstract is enclosed.

JP 55-129155 appears to be directed to production of catalyst. An English Abstract is enclosed.

JP 56-021604 appears to be directed to separation of liquid by semipermeable composite membrane. An English Abstract is enclosed.

JP 56-118701 appears to be directed to a method and apparatus for sealing end of hollow yarn. An English Abstract is enclosed.

JP 56-121685 appears to be directed to treatment of liquid containing iron ion and manganese ion. An English Abstract is enclosed.

JP 58-088007 appears to be directed to separation of liquid mixture. An English Abstract is enclosed.

JP 60-019002 appears to be directed to a method for backwashing hollow yarn membrane filter. An English Abstract is enclosed.

JP 60-206412 appears to be directed to a method for repairing end surface of hollow yarn membrane separation module. An English Abstract is enclosed.

JP 61-249505 appears to be directed to a method for preserving fluid separator. An English Abstract is enclosed.

JP 61-097005 appears to be directed to manufacture of hollow yarn membrane module. An English Abstract is enclosed.

JP 61-097006 appears to be directed to a repairing method of hollow yarn type module. An English Abstract is enclosed.

JP 61-107905 appears to be directed to a filter. An English Abstract is enclosed.

JP 61-167406 appears to be directed to a process for bundling and fixing separation membrane. An English Abstract is enclosed.

JP 61-167407 appears to be directed to preparation of hollow yarn filtration membrane module. An English translation is enclosed.

JP 61-171504 appears to be directed to an apparatus for centrifugal molding of yarn bundle. An English Abstract is enclosed.

JP 61-192309 appears to be directed to a hollow yarn type module. An English Abstract is enclosed.

JP 61-222510 appears to be directed to a hollow yarn membrane module and its preparation. An English Abstract is enclosed.

JP 61-242607 appears to be directed to preparation of hollow yarn type module having slit. An English Abstract is enclosed.

JP 61-257203 appears to be directed to a hydrophilic porous membrane and its preparation. An English Abstract is enclosed.

JP 61-263605 appears to be directed to a hollow yarn membrane device. An English Abstract is enclosed.

JP 61-291007 appears to be directed to a hollow yarn type separation membrane element. An English Abstract is enclosed.

JP 61-293504 appears to be directed to a separation device utilizing hollow yarn membrane. An English Abstract is enclosed.

JP 62-004408 appears to be directed to a filtration device using hollow yarn membrane. An English Abstract is enclosed.

JP 62-114609 appears to be directed to a hollow yarn membrane filter. An English Abstract is enclosed.

JP 62-140607 appears to be directed to a method for sterily detecting leak of hollow yarn-type module. An English Abstract is enclosed.

JP 62-144708 appears to be directed to a hollow yarn mold membrane module. An English Abstract is enclosed.

JP 62-163708 appears to be directed to a method for backwashing hollow yarn filter. An English Abstract is enclosed.

JP 62-179540 appears to be directed to a nonadsorptive hydrophilic membrane. An English Abstract is enclosed.

JP 62-250908 appears to be directed to a hollow yarn type filter. An English Abstract is enclosed.

JP 63-097634 appears to be directed to a hydrophilic membrane and its production. An English Abstract is enclosed.

JP 63-143905 appears to be directed to a hollow yarn membrane filter. A certified English Translation is enclosed.

JP 63-171607 appears to be directed to a method for sealing end of hollow yarn membrane. An English Abstract is enclosed.

JP 63-180254 appears to be directed to a private branch exchange. An English Abstract is enclosed.

JP S63-38884 appears to be directed to a hollow fiber module. A certified English translation is enclosed.

KR 2002-90967 appears to be directed to a submerged membrane coupled activated sludge system using intermittent aeration for simultaneous removal of nitrogen and phosphorus. An English Abstract is enclosed.

NL 1020491C appears to be directed to measuring integrity of filter membrane comprising creating volume of gas on filtrate side, increasing pressure on feed side to create pressure drop and measuring increase in pressure on filtrate side. An English Abstract is enclosed.

NL 1021197C appears to be directed to measuring integrity of filter membrane comprising creating volume of gas on filtrate side, increasing pressure on feed side to create pressure drop and measuring increase in pressure on filtrate side. An English Abstract is enclosed.

TW 347343 appears to be directed to a solid-liquid separating filter medium for sewage, waste water, etc. with a solid-liquid separating media comprises a mono- or multi-layered filter screen which a number of filaments are closely aligned in parallel and crosswise. An English Abstract is enclosed.

WO 1993-15827 appears to be directed to a hollow yarn membrane module. An English Abstract is enclosed.

WO 2002-40140 appears to be directed to improvements to methods for repairing by sealing hollow fibres of membranes, in particular, ultrafiltration, nanofiltration, and hyperfiltration membranes. An English Abstract is enclosed.

The following are remarks concerning the other information cited:

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;

3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.


By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,
Fufang Zha et al., *Applicant*

By: 
Peter C. Lando, Reg. No. 34,654
Nicole A. Palmer, Reg. No. 58,943
LOWRIE, LANDO & ANASTASI, LLP
Riverfront Office Park
One Main Street
Cambridge, Massachusetts 02142
Tel. (617) 395-7000

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